AMENDMENTS TO THE SPECIFICATION

Please replace Page 16, lines 7-15 with the following paragraph rewritten in amendment format:

As shown in Figs. 9A and 9C, the A-phase and B-phase sensors 34A and 34B, which are formed into optical type sensors, are placed on the inner wall of a casing for the first magnetic member 10, with an angular difference of ~~/2~~ π/2 [rad] secured between the two sensors 34A and 34B. This angular difference of ~~/2~~ π/2 [rad] is determined depending on a predetermined phase difference secured between the two types of excitation pulse signals fed to the A-phase and B-phase excitation coils 16 and 18, respectively.

Please replace Page 18, lines 1-10 with the following paragraph rewritten in amendment format:

Fig. 10 illustrates wave patterns to attain the A-phase and B-phase excitation pulse signals, the processing being conducted by the driver 32. In those wave patterns, the pattern (1) depicts the reference signal, while the patterns (2) and (3) depict the position pulse signals from the A-phase and B-phase sensors 34A and 34B, respectively. As described, both A-phase and B-phase sensors 34A and 34B are located on the motor so that there is a particular difference in the phases of the detected position pulse signals. In the example shown in Fig. 10, such a phase difference is ~~/2~~ π/2.

Please replace Page 18, lines 21-29 with the following paragraph rewritten in amendment format:

The B-phase phase correcting circuit 32D is configured to operate in the same way as above. The wave pattern (5) in Fig. 10 shows a pulse signal of a particular frequency, which is outputted from the B-phase phase correcting circuit 32D to the B-phase buffer 32F for the B-phase excitation coils 18. As compared between the wave patterns (4) and (5), there is a relative phase difference of ~~/2~~ π/2 between the excitation pulse signals fed to the A-phase and B-phase excitation coils 16 and 18, respectively.